



## Mr. Bruce M. Wilding

*Significant research in natural gas liquefaction technologies, fuel delivery systems, and manufacturing engineering*

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### Education

Mr. Bruce M. Wilding received his B.S. in manufacturing engineering technology from Brigham Young University in 1984.

### Experience and Achievements

Mr. Wilding joined the INL in 1989 after five years as senior manufacturing engineer at General Dynamics Corporation in Pomona, Calif. At INL, Mr. Wilding initiated and obtained funding for the INL robotics program. He has served as national coordinator for the Mixed Waste Robotics Technology Development Program and national representative for the INL Robotics Technology Development Program. Mr. Wilding also helped initiate the INL robotics program. Since 1996, Mr. Wilding has been the INL's natural gas products project manager.

Mr. Wilding has spent most of his career researching, inventing and implementing new technologies. He holds 14 U.S. and 11 foreign patents. He also has 9 U.S. and 40 foreign patents pending. His patents are in 7 different patent families or technology areas. His inventions address environment, energy, and energy security issues.

The natural gas program is focused on developing and demonstrating technology for the natural gas industry. Several new technologies have been developed such as a new small-scale natural gas liquefaction process, new CO<sub>2</sub> removal process, and a low cost liquid and compressed natural gas vehicle fuel station. These technologies are being demonstrated at several sites and are being licensed to industry. Development activities are focused on cost reduction, systems testing, and performance improvement. His responsibilities include project management and oversight, technical research and development, systems engineering, obtaining research funding and licensing the technologies to industry.

### Awards

Compact High Efficiency Natural Gas Liquefier - 2006 (R&D 100 Awards; FLC Far West Regional Award)

**INVENTOR OF THE YEAR 2006**